



Welcome to the Webinar!

Orientation and Onboarding for new site teams

Margaret Torn and the
AmeriFlux Management Project Team
Berkeley, California
October 13, 2021

- 🦔 Introduction to AmeriFlux and AMP
- 🦔 Community Panel
- 🦔 Events and getting involved
- 🦔 Data Support, Q&A
- 🦔 Tech Support, Q&A
- 🦔 Discussion



New AmeriFlux sites, 2017 – 2021

150 sites joined

91 have published data

📍 Canada

📍 Mexico

📍 Peru

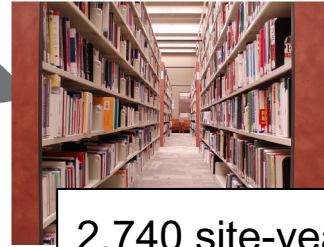
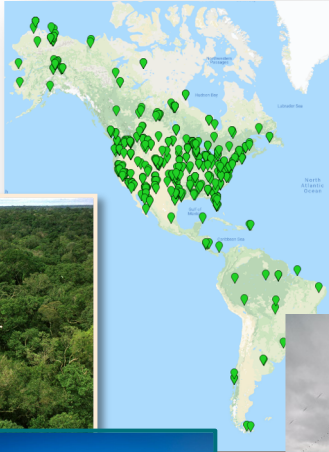
📍 Puerto Rico

📍 USA



The AmeriFlux Network

556 flux sites



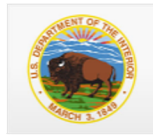
2,740 site-years of
data to download



>350 site team members
8,637 community members



SCIENCE!



ICOS

INTEGRATED
CARBON
OBSERVATION
SYSTEM

neon
National Ecological Observatory Network, Inc.

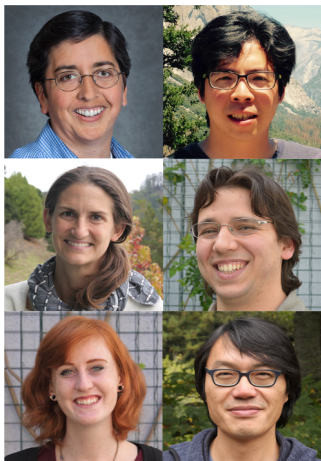
WMO, NIST, NREL, Phenocam, and many more!



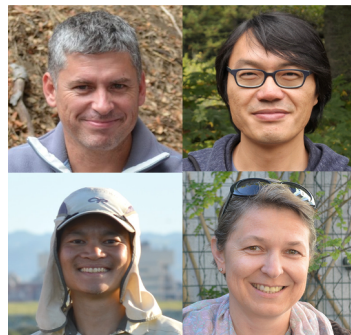
The AmeriFlux Management Project

ameriflux.lbl.gov/about/people/

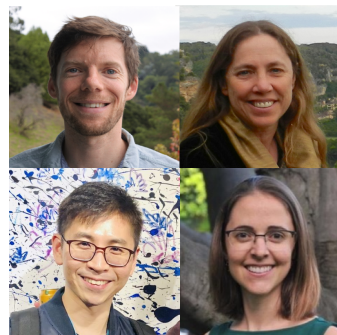
Data QA/QC and Support



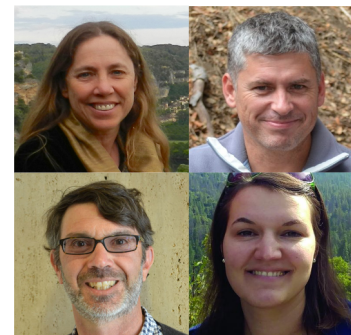
Tech QA/QC and Support



Outreach & Coordination



General Support and Core-site Support



External AMP Members



Benefits of being part of AmeriFlux

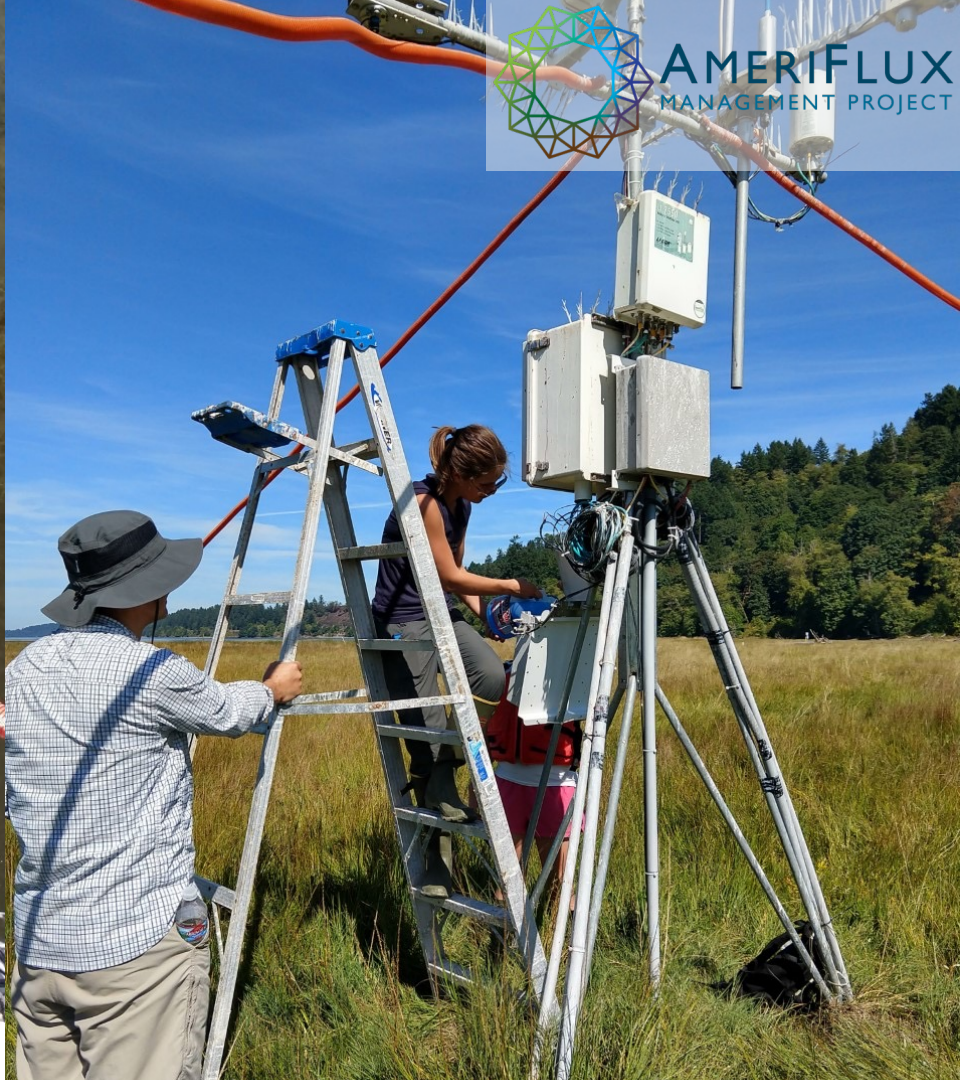
- **Community**
 - **Visibility and collaboration**
 - **High quality measurements**
 - **Data sharing and data credit**

Community Panel

- **Lisamarie Wyndham-Myers**
 - **Kathryn Ladig**
 - **Tim Griffis**

Community member: Lisamarie Windham-Myers

- **USGS Water Resources Mission Area**
- **Towers: US-Srr, US-Nrf, US-Nrs**
- **Atmospheric and hydrological fluxes in tidal wetlands**
- **USGS Website**



Community member: Kathryn Ladig

- Utah Geological Survey
- Tower: US-UTW, US-UTB
- Remote sensing calibration
- <https://ugs.easyfluxweb.com>



Community member: Tim Griffis



Department of Soil, Water, and Climate
University of Minnesota-Twin Cities
Tower: PE-QFR Quistacocha Forest Reserve
CH₄ & CO₂ Fluxes, Feedbacks, & Modeling in
Tropical Forested Peatlands
• <https://biometeorology.umn.edu/>



• EC flux tower (42 m tall)

• Instrumented Jan 2017

• Peat layer average
thickness 2.45 m

• *Mauritia flexuosa*
(moriche palm reaching
22 m height)

• Mean annual T_a
is 25°C with P
of 2740 mm



Community Events



Most years

- Annual Meeting
- AGU Town Hall
- Data-Tech Workshop
- Synthesis Workshop

This year is special

- *Virtual* Annual Meeting, Sept 20-22nd
- *Hybrid* AGU Fall Meeting Town Hall
- Webinars, monthly

Trevor
Keenan



Theme Years for Network Action

2019-2020

Year of Methane



AMERIFLUX

<https://ameriflux.lbl.gov/year-of-methane/year-of-methane/>

2021-2022

Year of Water Fluxes



AMERIFLUX

<https://ameriflux.lbl.gov/year-of-water-fluxes/>

Many ways to get involved!

- Join or contact **AmeriFlux groups**:
 - Data Advisory Committee (Bill Munger, chair)
 - Science Steering Committee (Marcy Litvak & Peter Thornton, co-chairs)
 - FLUXNET Early career network (Gabriela Shirkey, chair)
 - Urban Fluxes Committee (Sébastien Biraud)
 - Year of Water Fluxes Organizing Committee (WaterYear@lbl.gov)
 - Land-atmosphere interactions working group (Andrew Richardson, LandAtmosphere2021@gmail.com)
 - RUBISCO-AmeriFlux working group (Bill Riley, Trevor Keenan, Chi Chen, Zelalem Mekonen)
 - Diversity and Inclusion (Deb Agarwal, chair)

The screenshot shows the AmeriFlux website with a navigation bar at the top containing links: Home, About, Community, Sites, Data, Tech, Year of Methane, Resources, and a search icon. Below the navigation bar, there are several sections:

- POSTCARDS**: A featured post titled "AmeriFlux Year of Methane Featured Site – US-Tri and US-T5" with a photo of researchers in a snowy field. Below the photo is a caption: "To capture the spring release of greenhouse gases from bog lakes, a team of intrepid UW-Madison researchers..."
- FEATURED SERVICES**: A row of buttons: "Upload Data", "Download Data", "Join Community" (highlighted with a red box), and "Register a Site".
- MORE POSTCARDS**: A section titled "Women in AmeriFlux" with a photo of a woman in a blue shirt and a caption: "AmeriFlux means a diversity of ecosystems, but also of people and personal narratives. Today, on the second Thursday in July, our Mexican members observe Día del Árbol (Arbor Day). What a great opportunity to meet a few of the talented, innovative women who work at AmeriFlux sites across the Americas! AmeriFlux owes its success to... More"
- Map**: A map of North and South America with red dots indicating AmeriFlux sites. The map is titled "SITE SEARCH & MAPS" and includes the AmeriFlux logo and the text "Map created at ameriflux.lbl.gov".
- Tweets**: A section titled "Tweets by @AmeriFlux" (highlighted with a red box) showing a tweet from @AmeriFlux: "Save the date for the first virtual AmeriFlux Annual Meeting, Oct 6-8 2020, no registration or abstract submission costs. Ideas for breakout sessions (deadline Aug 17): forms.gle/AxFasSnGrKvZBQ... Abstract submission is now online (deadline Aug 31): forms.gle/4ma7qZvLynGjN..."

Upcoming Events and Opportunities

2021:

October 29: Year of Water Webinar: Soil water potential

November 2-4: ET Workshop: ET partitioning, modeling, remote sensing, measurements.

December 15: AGU Town Hall

<https://ameriflux.lbl.gov/events/>

2022:

- Year of Water Flux: webinars, journals special issue, and more
- AmeriFlux webinars, workshops, working groups, Annual Meeting, AGU Town Hall
- FLUXNET Co-op: supporting flux scientists



@fluxnet_coop
<https://fluxnet.org/community/join/>

Data Support

Deb
Agarwal



You-Wei
Cheah



Danielle
Christianson



Housen
Chu



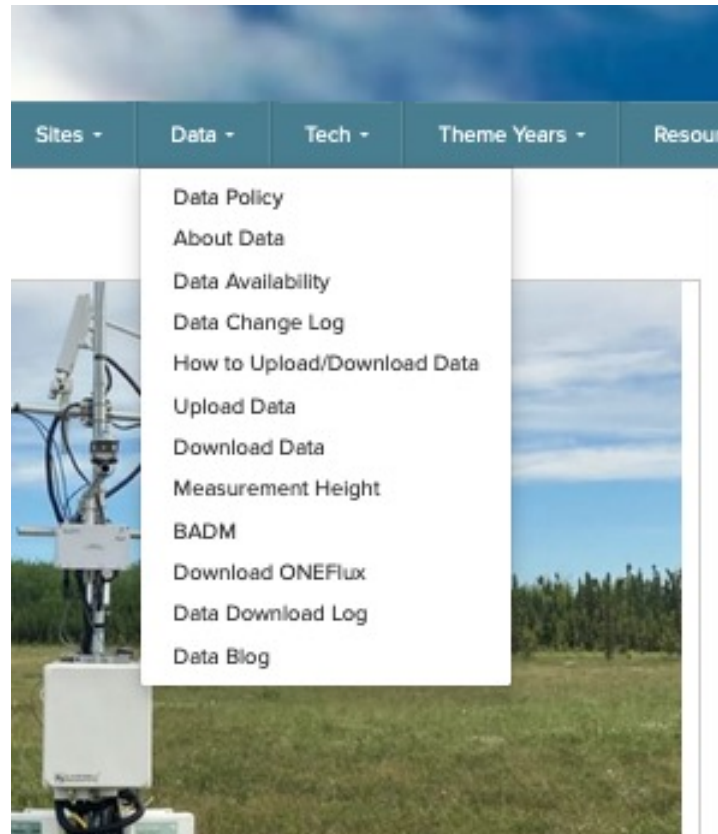
Fianna
O'Brien



Gilberto
Pastorello



Contact us at ameriflux-support@lbl.gov



Data policy

- Let us know your data policy choice at registration
- Two policy choices:
 - Creative Commons License (CC-BY-4.0)
 - Legacy
- CC-BY-4.0 policy is a prerequisite for ONEFlux processing to generate FLUXNET product

Data Policy

[AmeriFlux Data Use Policy](#)
[AmeriFlux Data Contributor Policy](#)

AmeriFlux Data Use Policy

The AmeriFlux Network data offered on this website are contributed by AmeriFlux scientists, who share their data openly with the global community. The AmeriFlux policy is that all data should be properly acknowledged by citing the data.

When you download the data, the Data Download portal will ask you to describe how you plan to use the data. This information is sent to the site Principal Investigators (PIs) and also posted to the [AmeriFlux Data Download Log](#).

In August 2021, the AmeriFlux community moved to the AmeriFlux CC-BY-4.0 License. Most site PIs now share their sites' data under the CC-BY-4.0 license. Data for some sites are shared under the historical AmeriFlux data-sharing policy, now called the AmeriFlux Legacy Data Policy.

Researchers using data that are available under the AmeriFlux CC-BY-4.0 License are free to follow any or all of the AmeriFlux Legacy Data Policy guidelines. If a project uses both CC-BY-4.0 and Legacy data, the AmeriFlux Legacy Data Policy must be followed for all AmeriFlux data used.

Policy 1. AmeriFlux CC-BY-4.0 License

Data shared under the CC-BY-4.0 license are available following the guidelines of the CC-BY-4.0 data usage license ([Creative Commons by Attribution 4.0 International](#)). The CC-BY-4.0 license specifies that the data user is free to Share (copy and redistribute the material in any medium or format) and/or Adapt (remix, transform, and build upon the material) for any purpose.

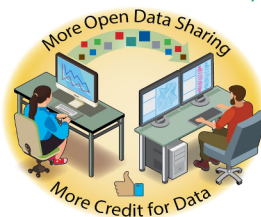
Data shared under the AmeriFlux CC-BY-4.0 License follow these attribution guidelines:

- For each AmeriFlux site used: Provide a citation to the site's data product that includes the data-product DOI.
- Acknowledge the AmeriFlux data resource: Funding for the AmeriFlux data portal was provided by the U.S. Department of Energy Office of Science.

Note:

Collaboration with data providers (AmeriFlux PIs) is not required under this CC-BY-4.0 license, but it can help avoid misinterpretation or other data issues and is appreciated by data providers. Regardless, it is recommended that data users inform data providers of forthcoming publications that use a site's data.

The required citation with DOI and an email list of AmeriFlux PIs for the downloaded sites is provided to the data user with the data download. This information is also accessible via each site's Site Info page ([See Site Search](#)).



Data about your site and team

US-ARM: ARM Southern Great Plains site- Lamont

Overview	Windroses	Data Citation	Data Use Log	Image Gallery	MODIS	Publications	BADM
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Tower_team:

PI: Sebastian Biraud SCBiraud@lbl.gov - Lawrence Berkeley National Laboratory
AncContact: Margaret Torn mtorn@lbl.gov - Lawrence Berkeley National Laboratory
AncContact: Stephen Chan SWChan@lbl.gov - Lawrence Berkeley National Laboratory

Lat, Long: 36.6058, -97.4888

Elevation(m): 314

Network Affiliations: AmeriFlux, Phenocam

Vegetation IGBP: CRO (Croplands: Lands covered with temporary crops followed by harvest and a bare soil period (e.g., single and multiple cropping systems). Note that perennial woody crops will be classified as the appropriate forest or shrub land cover type.)

Climate Koeppen: Cfa (Humid Subtropical: mild with no dry season, hot summer)

Mean Annual Temp (°C): 14.76

Mean Annual Precip. (mm): 843

Flux Species Measured: CO₂, H₂O

Years Data Collected: 2002 - Present

Years Data Available: BASE 2003 - 2021 [Data Citation](#)

Data Use Policy: [AmeriFlux CC-BY-4.0 Policy](#)¹

Description: Central facility tower crop field (winter wheat, corn, soy, alfalfa). The site also has continuous measurements of precise mixing ratios of CO₂, CH₄, CO, ...
[See More](#)

URL: <http://www.arm.gov/sites/sgp>

Research Topics: The research focus of the ARM SGP Main site is carbon dioxide and water dynamics at a regional scale; influence of the land surface on carbon dioxide in ...
[See More](#)

Acknowledgment: This research was supported by the Office of Biological and Environmental Research of the US Department of Energy under contract No. DE-AC02-05CH11231 as part of the Atmospheric Radiation Measurement Program (ARM)

Site Tasks

Site Set Select [Manage Site Sets](#)

Site Photo



Image Credit: Sebastian Biraud, 05/18/2016
 Copyright preference: Open use

Site Publication

[More Site Publications](#)

Raz-Yaseef, N., Billesbach, D. P., Fischer, M. L., Biraud, S. C., Gunter, S. A., Bradford, J. A., Torn, M. S. 2015. Vulnerability Of Crops And Native Grasses To Summer Drying In The U.S. Southern Great Plains, Agriculture, Ecosystems & Environment, 213, 209-218.

Keep information current for your sites!

- Add images
- Add publications
- Update Site General Info
- Update DOIs (after data is published)

<https://ameriflux.lbl.gov/sites/siteinfo/<site ID>>

Data submission 101

Upload Data

Which type of data do you want to upload?

BADM

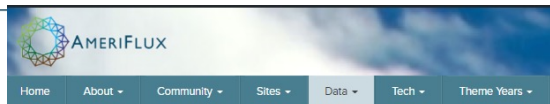
Half Hourly

Use **Half Hourly** for time series data other than high frequency data.

High frequency data require other data transfer mechanisms. See [Uploading High Frequency Data](#).

More Information:

- [About Data](#)
- [How to Upload/Download Data](#)



Home / Data / Upload Data

Upload Data: Half Hourly

[Back](#)

To submit AmeriFlux data file(s), please:

- Make sure that your data is in standard AmeriFlux format
- Select options below and upload the file(s)

Select Site *

Pick from list

Filter by Site ID or Name

CA-ER1 — Elora Research Station
CA-Gro — Ontario - Groundhog River, Boreal M
CA-HPC — Havikpak Creek
CA-KLP — Kinjoo Lake Peatland
CA-Let — Alberta - Mixed Grass Prairie
CA-LP1 — British Columbia - Mountain pine be
CA-LuM — Luther Marsh Wildlife Management
CA-MA1 — Manitoba Agricultural Site 1
CA-MA2 — Manitoba Agricultural Site 2
CA-MA3 — Manitoba Agricultural Site 3
CA-Man — Manitoba - Northern Old Black Spr
CA-Mor — Ontario - Eastern Peatland, Mar Rio

☐ I do not have a Site ID

Gap Filling *

- ☐ No gaps are filled
☐ Some or all gaps are filled

Data File(s) to Upload * (200 MB size limit per file)

Add File(s) 


Your Selection

Clear List

Gap Filling *

- ☐ No gaps are filled
☐ Some or all gaps are filled

Data File(s) to Upload * (200 MB size limit per file)

Add File(s) 

Description *

Notes about this data upload. These notes help us process it

File Containing Description of this Upload

Add File

By clicking Upload, I acknowledge that I have read and agree

Upload

Clear All Files

If you have questions, please contact us at ameriflux-support@lbl.gov. For more information see [About Data](#) and [How to Upload/Download Data](#).

2. Data Variable: Base names

Base names indicate fundamental quantities that are either measured or calculated / derived. They can also indicate quantified quality information.

Table 1. Base names for data variable labels

[Export to CSV](#) 

Name	Description	Units
TIMEKEEPING		
TIMESTAMP_START	ISO timestamp start of averaging period (up to a 12-digit integer as specified by the data's temporal resolution)	YYYYMMDDHHMM
TIMESTAMP_END	ISO timestamp end of averaging period (up to a 12-digit integer as specified by the data's temporal resolution)	YYYYMMDDHHMM
AQUATIC		
COND_WATER	Conductivity (i.e., electrical conductivity) of water	$\mu\text{S cm}^{-1}$
DO	Dissolved oxygen in water	$\mu\text{mol L}^{-1}$
PCH4	Dissolved methane (CH4) in water	$\text{nmolCH}_4 \text{ mol}^{-1}$
PCO2	Dissolved carbon dioxide (CO2) in water	$\mu\text{molCO}_2 \text{ mol}^{-1}$
PN2O	Dissolved nitrous oxide (N2O) in water	$\text{nmolN}_2\text{O mol}^{-1}$
PPFD_UW_IN	Photosynthetic photon flux density, underwater, incoming	$\mu\text{molPhotons m}^{-2} \text{ s}^{-1}$
TW	Water temperature	deg C
BIOLOGICAL		
DBH	Diameter of tree measured at breast height (1.3m) with continuous dendrometers	cm
LEAF_WET	Leaf wetness, range 0-100	%
SAP_DT	Difference of probes temperature for sapflow measurements	deg C
SAP_FLOW	Sap flow	$\text{mmolH}_2\text{O m}^{-2} \text{ s}^{-1}$
T_BOLE	Bole temperature	deg C
T_CANOPY	Temperature of the canopy and/or surface underneath the sensor	deg C

<https://ameriflux.lbl.gov/data/upload-data/>

<https://ameriflux.lbl.gov/half-hourly-hourly-data-upload-format/>

Other BADM templates

Browse BADM Standards

BADM Standards define the variables, units, and requirements for BADM. BADM are organized into a hierarchy: types, groups, subgroups (optional), and variables. See BADM Basics for more details.

Browse BADM Variables by Group

Click a BADM group below (organized by types) to view details for that group. A customizable CSV file can be generated on the group page for BADM submission to AmeriFlux. BADM Standards in Microsoft Excel files can be downloaded here. Some BADM types (e.g., Bionomics, CNKP, Fluxes) are scheduled for update. Contact ameriflux-support@ibl.gov, if you are looking for BADM groups not included on this page.

Site General Info

- COUNTRY (Geographic Country)
- URL_AMERIFLUX (AmeriFlux URL)
- HEADER (Site ID, Site Name, Submission details)
- TEAM_MEMBER (Team Membership)
- TEAM_CONTACT
- SHIPPING_ADDRESS
- NETWORK (Network Affiliations)
- FLUX_MEASUREMENTS
- STATE (Geographic State)
- SITE_DESC (Site Description)
- RESEARCH_TOPIC
- SITE_FUNDING
- LOCATION (Geographic Location)
- IGBP (International Geosphere-Biosphere Programme)
- LAND_OWNERSHIP
- URL (Site Website)
- REFERENCE_PAPER (References)
- ACKNOWLEDGEMENT
- UTC_OFFSET
- CLIM_AVG (Average Climate)
- SITE_CHAR (Site Characteristics)
- DOM_DIST_MGMT (Dominant Disturbance and Management)
- TOWER_TYPE
- TOWER_POWER

Doi

- DOI (Digital Object Identifier)
- DOI_ORGANIZATION (DOI Organizations)
- DOI_CONTRIBUTOR (DOI Contributors)
- DOI_RELATED_DATA_DOI (Related DOI Information)

BADM Group: HEIGHTC

BADM Type: VegCover
Description: Canopy Height
Group Entries per Site: Multiple
Last updated: Mar 02, 2021

Overview Definitions & Units Examples

BADM variables: Definitions, Units, Requirements

See Overview tab or BADM Basics for explanation of Required and Optional. Multiple entries of this BADM group can be reported per site. However, comment more: [1](#)

Show All LIST Options Hide All LIST Options

Variable	Units	Description
* HEIGHTC I-Required	m	Canopy height <input type="button" value="v"/> Height of the canopy distribution of overstory canopy understory distinct details in Approach
HEIGHTC_SPP I-Optional-a	Scientific name	Canopy height species, use the sc. Please refer to wv if the measurement not use SPP if repo
HEIGHTC_VEGTYPE I-Optional-a	LIST(VEGTYPE) Show	Canopy height vegetation type, use the predefined by the measurement (vegetation type is briefly in Approach)
* HEIGHTC_STATISTIC I-Required	LIST(STATISTIC) Show	Canopy height statistic. The statistic for the min / max, standard
HEIGHTC_STATISTIC_METHOD I-Optional	LIST(STATISTIC_METHOD) Show	Canopy height statistic method used to get individuals, aggregated representing the statistic method is not measured

BADM Group: HEIGHTC

BADM Type: VegCover
Description: Canopy Height
Group Entries per Site: Multiple
Last updated: Mar 02, 2021

Overview Definitions & Units Examples

BADM Examples

Choose a variable marked with to show examples of how to submit and interpret for more details. Combinations of variables must be unique. Read more: [1](#)

Canopy Height

- * HEIGHTC**
- HEIGHTC_SPP
- HEIGHTC_VEGTYPE
- * HEIGHTC_STATISTIC**
- HEIGHTC_STATISTIC_METHOD
- HEIGHTC_STATISTIC_NUMBER

Understory Height

- * HEIGHTC_U**
- HEIGHTC_U_SPP
- HEIGHTC_U_VEGTYPE
- * HEIGHTC_U_STATISTIC**
- HEIGHTC_U_STATISTIC_METHOD
- HEIGHTC_U_STATISTIC_NUMBER

Applies to All

- HEIGHTC_APPROACH
- * HEIGHTC_DATE**
- * HEIGHTC_DATE_START**
- * HEIGHTC_DATE_END**
- HEIGHTC_DATE_LUNC
- HEIGHTC_COMMENT

HEIGHTC

Canopy height is important and HEIGHTC should represent



BADM supports overstory and understory vegetation canopies.



BADM Group: HEIGHTC

BADM Type: VegCover
Description: Canopy Height
Group Entries per Site: Multiple
Last updated: Mar 02, 2021

Overview Definitions & Units Examples

Customize and Download CSV for BADM Submission

Select variables from one or more subgroups to form a complete group. At a the "Applies to All" subgroup must be included in every group. After selecting, customized CSV file for submission of BADM. For additional submission details, Multiple entries of this BADM group can be reported per site. However, comment more: [1](#). See BADM Basics for more details.

Open/Close Open All Subgroups Close All Subgroups

Select Select All Only Select Required Clear All

Canopy Height

- ☒ Required
- ☒ * HEIGHTC
- ☒ * HEIGHTC_STATISTIC
- ☒ * HEIGHTC_STATISTIC_NUMBER
- ☐ Optional
- ☐ HEIGHTC_SPP OR ☐ HEIGHTC_VEGTYPE
- ☐ HEIGHTC_STATISTIC_METHOD
- ☐ HEIGHTC_STATISTIC_NUMBER

Understory Height

- ☐ Required
- ☐ * HEIGHTC_U
- ☐ * HEIGHTC_U_STATISTIC
- ☐ Optional
- ☐ HEIGHTC_U_SPP OR ☐ HEIGHTC_U_VEGTYPE
- ☐ HEIGHTC_U_STATISTIC_METHOD
- ☐ HEIGHTC_U_STATISTIC_NUMBER

Applies to All

- ☒ Required
- ☒ * HEIGHTC_DATE OR ☐ * HEIGHTC_DATE_START OR ☐ * HEIGHTC_DATE_END OR ☐ Both
- ☐ Optional
- ☐ HEIGHTC_COMMENT
- ☐ HEIGHTC_APPROACH
- ☐ HEIGHTC_DATE_LUNC

Custom CSV				
	A	B	C	D
1	SITE_ID	HEIGHTC	HEIGHTC_SPP	HEIGHTC_VEGTYPE
2	Required	1-Required	1-Optional-a	1-Optional-a
3	CC-Sss	m	Scientific name	LIST(VEGTYPE)
4				
5				

After your flux data are published...



Anyone with an AmeriFlux account can download data (with agreement to the data policy)

Download Data

1. Select A Data Product

BASE

2. Refine Your Selection

3. Select Sites

Want to start by selecting sites? Go to [Site Search](#).

Select the data product that you want to download

Visit [AmeriFlux Data Processing Pipelines](#) for more information about AmeriFlux data products.

☐ FLUXNET

Features

- Continuous flux/met
- Gap-filled
- Partitioned
- Uncertainty analysis
- 5 temporal resolutions
- BADM optional

Generated by

- AMP using ONE processing code
- FP standard format
- Subset of standard variables

☒ BASE

Features

- Flux/met data
- Half-hourly / hourly
- BADM included

Generated by

- Site team in FP standard format
- QA/QC'd by AmeriFlux
- All FP variables
- All levels of aggregation

☐ BADM Only

Features

- Biological data
- Ancillary data
- Disturbance data
- Metadata

Generated by

- Site team in BADM standard format
- QA/QC'd by AmeriFlux

Confirm and Go to Next Step

Download Data

1. Select A Data Product

✓ BASE

2. Refine Your Selection

CC-BY-4.0

3. Select Sites

4. Agree to Policy

5. Download Data

Select the data use policy that you will follow.

The data use policy that you select below affects which sites' data are available for download. A site's data use policy is chosen by the site team.

☒ CC-BY-4.0

More open

- Citation of data required
- Read details at [Data Policy](#)

Sites

- 290 sites
- Available for use under Legacy policy if combining sites under both policies

☐ Legacy

More requirements

- Requires contacting the Site PIs for collaboration
- Citation of data required
- Read details at [Data Policy](#)

Sites

- 400 sites (includes 290 sites with data available under CC-BY-4.0)
- All AmeriFlux sites that have BASE

Optional: Add multi-site BADM file(s) to download.

A site-specific BADM file is included for each site selected in Step 3.

☐ Add BADM for all sites that have the BASE data product (AA-Flx_BIF).

☐ Add BADM for all sites in the AmeriFlux network (AA-Net_BIF).

Previous

Confirm and Go to Next Step

<https://ameriflux.lbl.gov/data/download-data/>

Download statistics are provided



Site PIs receive an email for every download

Data Download Log shows download stats (<https://ameriflux.lbl.gov/data/data-download-log/>)

Data Download Log

US-ARM: ARM Southern Great Plains site- Lamont

This page displays the list of downloads of data for the site US-ARM.

Note: Results are the number of downloads to distinct data users. The Download Count column indicates the number of times the data user downloaded the data. The Version column refers to the version of the data product for the site that was downloaded by the data user.

Search

Year Range Start Year -

Export to CSV

Showing 1 to 10 of 3750 results

Products : ☒ All ☐ BASE

☐ FLUXNET2015 ☐ LaThuile 2007

Items Per Page:

10

25

50

View All

Date ^	Email ⇅	Name ⇅	Product ⇅	Vers. ⇅	Intended Use ⇅	Intended Use Description ⇅	Download Count ⇅
2021-10-09	email@edu	Huang Feini	FLUXNET2015	1-4	Education (Teacher or Student)	ok	5
2021-10-09	email@edu	Fann Liu	FLUXNET2015	1-4	Research - Multi-site synthesis	Comparing the carbon and water fluxes and water use efficiency	1
2021-10-08	email@edu	Alireza Amani	FLUXNET2015	1-4	Research - Other	Estimating Evapotranspiration using machine learning methods.	5

Tech Support

Sébastien
Biraud



Housen
Chu



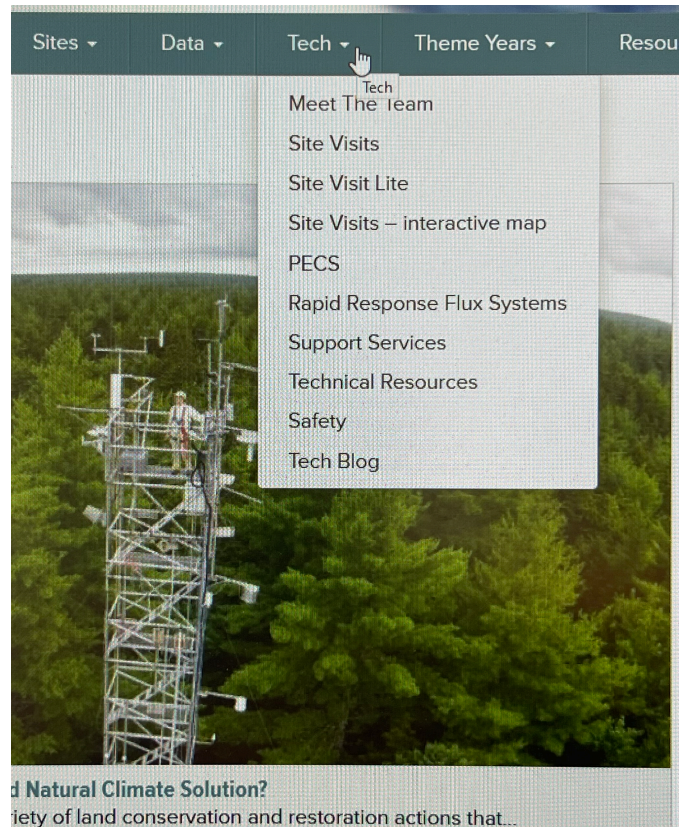
Stephen
Chan



Sigrid
Dengel



Contact us at ameriflux-tech@lbl.gov



Visit us at <https://ameriflux.lbl.gov/tech>

Support by the AMP-Tech Team



- IRGA calibration:
 - Span/Target Gas cylinders (CO_2 and CH_4)
 - Dew point generator (H_2O)
- Instrument Loaner Program:
 - PAR sensors
 - Gas analyzers (LI-COR / CSI)
 - Sonic anemometers (CSI / Gill / ATI)
- Portable Profile System
- Leaf area index sensor.

Request by email: ameriflux-tech@lbl.gov



<https://ameriflux.lbl.gov/tech/support-services/>

Rapid Response System (RRS)

Loan up to three years. Eddy covariance + meteorological sensors

Response to ecosystem disturbance or special opportunities:

- Deployed at US-CdM in June 2019
- Upcoming deployment at US-Me2 in Fall 2021
- Three systems **available Fall 2021**

NEW! EC in Urban environments:

- Two systems **available Fall 2021**
- <https://ameriflux.lbl.gov/resources/reports/>



To Apply visit: <https://ameriflux.lbl.gov/resources/rapid-response-flux-systems>

Year of Water Instrumentation



1. **Augment** quantity and quality of **water-related measurements** at US-based AmeriFlux sites with a focus on soil water content, soil water potential, water-table depth, and total precipitation.
2. Generate **Soil Water retention curves for 40-50 Ameriflux sites (including non-US based sites)** in partnership with U. of Indiana (Kim Novick & Rich Phillips).

Collect high-quality data



1/ Request a site visit Lite at Your site:

- Focuses on data processing
- Contact us: ameriflux-tech@lbl.gov




2/ Visit AmeriFlux website Tech pages:

- Watch past and attend new Webinars
(<https://ameriflux.lbl.gov/community/amp-webinar-series/>)
- Resource page: <https://ameriflux.lbl.gov/tech/technical-resources/>
- Read Tech Blogs: <https://ameriflux.lbl.gov/category/tech/>

3/ Participate in Site Visit 2.0 through Ambassador/local rep initiative in 2022



Time for Discussion

-  Get to know each other
-  Peer networking
-  Safety

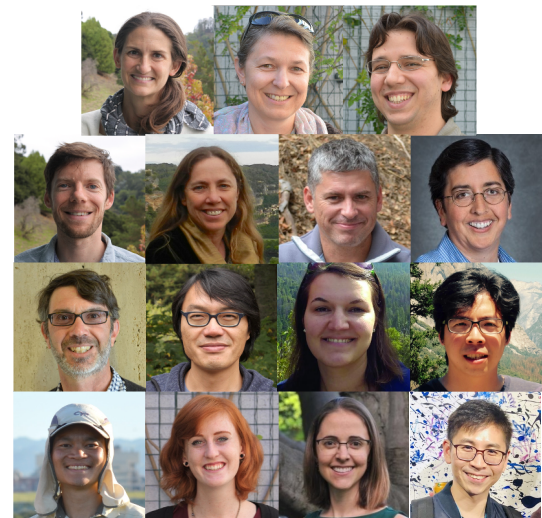


Thank you for joining this webinar for new site teams!



We'd love to hear from you:

- Technical support: ameriflux-tech@lbl.gov
- Data support: ameriflux-support@lbl.gov
- Get involved: ameriflux@lbl.gov



END OF WEBINAR



Review previous webinars



- Requirements for processing a site using ONEFlux (Oct 2020)
- DOI authorship form and data policy (Nov 2020)
- Post-submission data life-cycle (Jan 2021)
- Submitting BADM in CSV format (Mar 2021)

Contact us at ameriflux-support@lbl.gov

Deb
Agarwal



You-Wei
Cheah



Danielle
Christianson



Housen
Chu



Fianna
O'Brien



Gilberto
Pastorello



timing

1. Introduction, What is ameriflux, What is the ameriflux management project
 - 10 min (including starting a few minutes late)
2. Community panel
 - 10 min (formally 6 minutes)
3. Community
 - 5 min
4. Technical support
 - 10 min, including Q&A
5. Data support
 - 10 min, including Q&A
6. Breakouts or plenary
 - 15 min

556 sites have joined 1991-present

